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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,988	09/17/2003	Toru Kimura	14157-012001	4635
26161	7590	12/20/2005	EXAMINER	
FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			COLE, ELIZABETH M	
			ART UNIT	PAPER NUMBER
			1771	
DATE MAILED: 12/20/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/664,988

Applicant(s)

KIMURA ET AL.

Examiner

Elizabeth M. Cole

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**– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –
Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 13-22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 13-22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

1. Claims 1-6, 13-22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification as originally filed does not disclose that the fibers are oriented in a direction "not parallel" with the direction in which the fiber cloth is oriented. The specification does not provide support for the warp and weft defining pores, and does not provide support for the limitation that some of the fibers are located in the fiber cloth or the pores of the fiber cloth. For support of the not parallel limitation, Applicant points to the statement that the fibers are oriented in a direction crossing the fiber cloth. However, the limitation of not parallel is broader than the limitation of "crossing". With regard to the limitation that the fibers penetrate the fabric, the specification states that the resin which comprises the fibers impregnates the fabric but does not state that the fibers within the resin also penetrates the fabric.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 22 is rejected under 35 U.S.C. 102(b) as being anticipated by JP2002212310. JP '310 discloses a molded article comprising a polymeric material which may be reinforced with a fabric, paragraph 0056, and which further comprises short fibers in the polymeric material. The fibers and the fabric can be intermingled. Paragraph 0054.

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-6, 13-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2002212310 A, abstract and machine translation attached. JP '310 discloses a molded article comprising a polymeric material which may be reinforced with a fabric, (paragraph 0056) and which further comprises short fibers which may be oriented in a single direction by the application of a magnetic field, (paragraph 0017). The fibers have a length of 10 mm or less and the claimed anisotropic diamagnetic susceptibility, (paragraphs 0017 and 0018). The fibers may comprise organic fibers, (paragraph 0017). JP '310 differs from the claimed invention because it does not clearly state that the fibers are oriented in a direction crossing the fabric, however, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have chosen the direction of orientation of the fibers so that they provided optimum reinforcement to the molded article. Further, it is noted that the examples in JP '310 teaches that the fibers can be oriented in either the longitudinal or thickness direction. See paragraphs 0098 , 0099. With regard to the limitation that the fabric is penetrated by some of the fibers, JP '310 teaches that the reinforcing fibers can be intermingled with the fibers, which would equate to the limitation to the regarding the fibers penetrating the fabric. See paragraph 0054.

5. Applicant's arguments filed 10/20/05 have been fully considered but they are not persuasive. Applicant argues that JP '310 does not teach orienting the fibers in a direction not parallel with the fabric. However, since JP '310 does teach that the fibers can be oriented in either a thickness or longitudinal direction, and since JP '310 employs the fibers to reinforce the structure, it would have been obvious to one of ordinary skill in the art to have selected the particular orientation of the fibers through the process of routine experimentation in order to optimize the reinforcement provided to the composite material from the fibers.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

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Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The fax number for all official faxes is (571) 273-8300.


Elizabeth M. Cole
Primary Examiner
Art Unit 1771

e.m.c